



Material - SAE J462 CA905

Standard Specification for Cast Copper Alloys

Group - Non-Ferrous Copper Alloy

Sub Group - SAE J462 Cast Copper Alloys

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|--|
| Aluminium | Al % | 0.005 max. | As-Cast | |
| Iron | Fe % | 0.150 max. | | |
| Nickel | Ni % | 1.000 max. | | |
| Phosphorus | P % | 0.050 max. | | |
| Lead | Pb % | 0.300 max. | | |
| Silicon | Si % | 0.005 max. | | |
| Tin | Sn % | 9.000 - 11.000 | | |
| Zinc | Zn % | 1.000 - 3.000 | | |
| Other | Ot% | 0.300 max. | | |
| Copper | Cu % | 86.000 - 89.000 | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 276 - 303 Yield Strength in Mpa 124 - 172 Elongation in % 10 - 20 Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C90500 | UNS | USA | Rod, Bar, Tube and Shapes |
| B30 C90500 | ASTM | USA | Ingot and Casting |
| B271 C90500 | ASTM | USA | Casting |
| SB-505 C90500 | ASME | USA | Casting |
| SB-584 C90500 | ASME | USA | Casting |
| SAE62 | SAE | USA | Casting |
| 4845 | SAE | USA | Casting |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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